

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/787,082B

Source:

Date Processed by STIC: IFW/6
6/8/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/787,082B

TIME: 08:32:01

Input Set : E:\DAVI0005.ST25.txt

Output Set: N:\CRF4\06082005\I787082B.raw

3 <110> APPLICANT: Craik, David James
 4 Daly, Norelle Lee
 5 Nielsen, Katherine Justine
 7 <120> TITLE OF INVENTION: CYCLISED CONOTOXIN PEPTIDES
 9 <130> FILE REFERENCE: DAVI-0005
 11 <140> CURRENT APPLICATION NUMBER: US 09/787,082B
 12 <141> CURRENT FILING DATE: 2001-06-14
 14 <150> PRIOR APPLICATION NUMBER: PCT/AU99/00769
 15 <151> PRIOR FILING DATE: 1999-09-14
 17 <150> PRIOR APPLICATION NUMBER: AU PP 5895
 18 <151> PRIOR FILING DATE: 1998-09-14
 20 <160> NUMBER OF SEQ ID NOS: 29
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 7
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Artificial
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Synthetic Construct
 32 <400> SEQUENCE: 1
 34 Thr Arg Asn Gly Leu Pro Gly
 35 1 5
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 4
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Artificial
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Synthetic Construct
 46 <400> SEQUENCE: 2
 48 Thr Arg Asn Gly
 49 1
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 7
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Artificial
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Synthetic Construct
 60 <400> SEQUENCE: 3
 62 Thr Arg Gly Gly Leu Pro Val
 63 1 5
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 3
 68 <212> TYPE: PRT

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69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Synthetic Construct
74 <400> SEQUENCE: 4
76 Thr Asn Gly
77 1
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 32
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial
85 <220> FEATURE:
86 <223> OTHER INFORMATION: cyclic conotoxin peptide
88 <400> SEQUENCE: 5
90 Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
91 1 5 10 15
94 Thr Gly Ser Cys Arg Ser Gly Lys Cys Thr Arg Asn Gly Leu Pro Gly
95 20 25 30
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 29
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: cyclic conotoxin peptide
106 <400> SEQUENCE: 6
108 Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
109 1 5 10 15
112 Thr Gly Ser Cys Arg Ser Gly Lys Cys Thr Arg Asn Gly
113 20 25
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 32
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <223> OTHER INFORMATION: cyclic conotoxin peptide
124 <400> SEQUENCE: 7
126 Gly Leu Pro Val Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met
127 1 5 10 15
130 Tyr Asp Cys Cys Thr Gly Ser Cys Arg Ser Gly Lys Cys Thr Arg Gly
131 20 25 30
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 19
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: cyclic conotoxin peptide
142 <400> SEQUENCE: 8
144 Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu His Ser Asn Leu Cys
145 1 5 10 15
148 Thr Asn Gly

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152 <210> SEQ ID NO: 9
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154 <212> TYPE: PRT
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157 <220> FEATURE:
158 <223> OTHER INFORMATION: cyclic conotoxin peptide
160 <400> SEQUENCE: 9
162 Cys Cys Ser Asn Pro Val Cys His Leu Glu His Ser Asn Leu Cys Thr
163 1 5 10 15
166 Asn Gly Gly
170 <210> SEQ ID NO: 10
171 <211> LENGTH: 25
172 <212> TYPE: PRT
173 <213> ORGANISM: Conus magus
175 <400> SEQUENCE: 10
177 Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
178 1 5 10 15
181 Thr Gly Ser Cys Arg Ser Gly Lys Cys
182 20 25
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 25
187 <212> TYPE: PRT
188 <213> ORGANISM: Conus magus
191 <220> FEATURE:
192 <221> NAME/KEY: MISC_FEATURE
193 <222> LOCATION: (7)..(7)
194 <223> OTHER INFORMATION: X = 4-hydroxyproline
196 <400> SEQUENCE: 11
W--> 198 Cys Lys Gly Lys Gly Ala Xaa Cys Ser Arg Leu Met Tyr Asp Cys Cys
199 1 5 10 15
202 Thr Gly Ser Cys Arg Ser Gly Lys Cys
203 20 25
206 <210> SEQ ID NO: 12
207 <211> LENGTH: 27
208 <212> TYPE: PRT
209 <213> ORGANISM: Conus geographus
212 <220> FEATURE:
213 <221> NAME/KEY: MISC_FEATURE
214 <222> LOCATION: (4)..(4)
215 <223> OTHER INFORMATION: X = 4-hydroxyproline
217 <220> FEATURE:
218 <221> NAME/KEY: MISC_FEATURE
219 <222> LOCATION: (10)..(10)
220 <223> OTHER INFORMATION: X = 4-hydroxyproline
222 <220> FEATURE:
223 <221> NAME/KEY: MISC_FEATURE
224 <222> LOCATION: (21)..(21)
225 <223> OTHER INFORMATION: X = 4-hydroxyproline
227 <400> SEQUENCE: 12

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W--> 229 Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Tyr Asn Cys Cys
      230 1          5          10          15
      233 Arg Ser Cys Asn Xaa Tyr Thr Lys Arg Cys Tyr
      234          20          25
      237 <210> SEQ ID NO: 13
      238 <211> LENGTH: 24
      239 <212> TYPE: PRT
      240 <213> ORGANISM: Conus striatus
      243 <220> FEATURE:
      244 <221> NAME/KEY: MISC_FEATURE
      245 <222> LOCATION: (7)..(7)
      246 <223> OTHER INFORMATION: X = 4-hydroxyproline
      248 <400> SEQUENCE: 13

W--> 250 Cys Arg Ser Ser Gly Ser Xaa Cys Gly Val Thr Ser Ile Cys Cys Gly
      251 1          5          10          15
      254 Arg Cys Tyr Arg Gly Lys Cys Thr
      255          20
      258 <210> SEQ ID NO: 14
      259 <211> LENGTH: 26
      260 <212> TYPE: PRT
      261 <213> ORGANISM: Conus striatus
      263 <400> SEQUENCE: 14
      265 Cys Lys Leu Lys Gly Gln Ser Cys Arg Lys Thr Ser Tyr Asp Cys Cys
      266 1          5          10          15
      269 Ser Gly Ser Cys Gly Arg Ser Gly Lys Cys
      270          20          25
      273 <210> SEQ ID NO: 15
      274 <211> LENGTH: 29
      275 <212> TYPE: PRT
      276 <213> ORGANISM: Conus geographus
      279 <220> FEATURE:
      280 <221> NAME/KEY: MISC_FEATURE
      281 <222> LOCATION: (4)..(4)
      282 <223> OTHER INFORMATION: X = 4-hydroxyproline
      284 <220> FEATURE:
      285 <221> NAME/KEY: MISC_FEATURE
      286 <222> LOCATION: (7)..(7)
      287 <223> OTHER INFORMATION: X = 4-hydroxyproline
      289 <400> SEQUENCE: 15

W--> 291 Cys Lys Ser Xaa Gly Thr Xaa Cys Ser Arg Gly Met Arg Asp Cys Cys
      292 1          5          10          15
      295 Thr Ser Cys Leu Leu Tyr Ser Asn Lys Cys Arg Arg Tyr
      296          20          25
      299 <210> SEQ ID NO: 16
      300 <211> LENGTH: 29
      301 <212> TYPE: PRT
      302 <213> ORGANISM: Conus geographus
      305 <220> FEATURE:
      306 <221> NAME/KEY: MISC_FEATURE

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307 <222> LOCATION: (4)..(4)
308 <223> OTHER INFORMATION: X = 4-hydroxyproline
310 <220> FEATURE:
311 <221> NAME/KEY: MISC_FEATURE
312 <222> LOCATION: (7)..(7)
313 <223> OTHER INFORMATION: X = 4-hydroxyproline
315 <400> SEQUENCE: 16
W--> 317 Cys Lys Ser Xaa Gly Thr Xaa Cys Ser Arg Gly Met Arg Asp Cys Cys
318 1 5 10 15
321 Thr Ser Cys Leu Ser Tyr Ser Asn Lys Cys Arg Arg Tyr
322 20 25
325 <210> SEQ ID NO: 17
326 <211> LENGTH: 27
327 <212> TYPE: PRT
328 <213> ORGANISM: Conus tulipa
331 <220> FEATURE:
332 <221> NAME/KEY: MISC_FEATURE
333 <222> LOCATION: (4)..(4)
334 <223> OTHER INFORMATION: X = 4-hydroxyproline
336 <220> FEATURE:
337 <221> NAME/KEY: MISC_FEATURE
338 <222> LOCATION: (10)..(10)
339 <223> OTHER INFORMATION: X = 4-hydroxyproline
341 <220> FEATURE:
342 <221> NAME/KEY: MISC_FEATURE
343 <222> LOCATION: (21)..(21)
344 <223> OTHER INFORMATION: X = 4-hydroxyproline
346 <400> SEQUENCE: 17
W--> 348 Cys Leu Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Tyr Asn Cys Cys
349 1 5 10 15
352 Arg Ser Cys Asn Xaa Tyr Ser Arg Lys Cys Arg
353 20 25
356 <210> SEQ ID NO: 18
357 <211> LENGTH: 27
358 <212> TYPE: PRT
359 <213> ORGANISM: Conus purpurascens
362 <220> FEATURE:
363 <221> NAME/KEY: MISC_FEATURE
364 <222> LOCATION: (4)..(4)
365 <223> OTHER INFORMATION: X = 4-hydroxyproline
367 <400> SEQUENCE: 18
W--> 369 Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
370 1 5 10 15
373 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
374 20 25
377 <210> SEQ ID NO: 19
378 <211> LENGTH: 13
379 <212> TYPE: PRT
380 <213> ORGANISM: Conus geographus

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/787,082B

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Input Set : E:\DAVI0005.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 7
Seq#:12; Xaa Pos. 4, 10, 21
Seq#:13; Xaa Pos. 7
Seq#:15; Xaa Pos. 4, 7
Seq#:16; Xaa Pos. 4, 7
Seq#:17; Xaa Pos. 4, 10, 21
Seq#:18; Xaa Pos. 4
Seq#:25; Xaa Pos. 6, 7, 17
Seq#:26; Xaa Pos. 6, 7, 17
Seq#:27; Xaa Pos. 6, 7, 17
Seq#:28; Xaa Pos. 8, 18

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9

VERIFICATION SUMMARY

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Input Set : E:\DAVI0005.ST25.txt

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L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28